

1 ABSTRACT

2 The present invention relates to a method for  
3 producing patient specific anti-cancer antibodies using a  
4 novel paradigm of screening.. By segregating the anti-cancer  
5 antibodies using cancer cell cytotoxicity as an end point,  
6 the process makes possible the production of anti-cancer  
7 antibodies customized for the individual patient that can be  
8 used for therapeutic and diagnostic purposes. The invention  
9 further relates to the process by which the antibodies are  
10 made and to their methods of use. The antibodies can be made  
11 specifically for one tumor derived from a particular patient  
12 and are selected on the basis of their cancer cell  
13 cytotoxicity and simultaneous lack of toxicity for non-  
14 cancerous cells. The antibodies can be used in aid of  
15 staging and diagnosis of a cancer, and can be used to treat  
16 tumor metastases. The anti-cancer antibodies can be  
17 conjugated to red blood cells obtained from that patient and  
18 re-infused for treatment of metastases based upon the  
19 recognition that metastatic cancers are usually well  
20 vascularized and the delivery of anti-cancer antibodies by  
21 red blood cells can have the effect of concentrating the  
22 antibodies at the site of the tumor.

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